```
1
2
3   import mysql.connector
4
5
6
7   def Mysql_connect (Mysql_host, Mysql_user, Mysql_pass):
8
9      try:
10
11        mydb = mysql.connector.connect( host = Mysql_host, user = Mysql_user, password =
          Mysql_pass )
12
13        print(str(mydb) + " --> Connected")
14
15        return mydb
16
17     except mysql.connector.Error as err:
18
19        print("Error: {}".format(err))
20
21
22  #Mysql_connect (Mysql_host='localhost', Mysql_user='shane', Mysql_pass='')
23
24
25
26
27  def Mysql_get_ALL_DB (My_host, My_user, My_pass):
28
29     LIST_db = []
30
31     conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
32
33     mycursor = conn.cursor()
34     mycursor.execute("SHOW DATABASES")
35
36     myresult = mycursor.fetchall()
37
38     for x in myresult:
39
40        #print(x)
41        LIST_db.append(x)
42
43     return LIST_db
44
45
46  #print (Mysql_get_ALL_DB (My_host='localhost', My_user='root', My_pass=''))
47
48  '''
49  LIST_db = Mysql_get_ALL_DB (My_host='localhost', My_user='root', My_pass='')
50  for x in LIST_db:
51
52     print (x)
53  '''
54
55
56
57  def Mysql_get_ALL_tables (My_host, My_user, My_pass, My_db_name):
58
59     LIST_table = []
60
61     conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
62
63     mycursor = conn.cursor()
64     mycursor.execute("Use " + str(My_db_name)) #use the database
65     mycursor.execute("SHOW TABLES")
66
```

```
67      myresult = mycursor.fetchall()
68
69      for x in myresult:
70
71          #print(x)
72          LIST_table.append(x)
73
74      return LIST_table
75
76
77  #Mysql_get_ALL_tables (My_host='localhost', My_user='root', My_pass='', My_db_name =
    'joomla112')[1]
78
79
80
81  def Mysql_search_db_name (My_host, My_user, My_pass, My_db_name):
82
83      LIST_all_db = Mysql_get_ALL_DB (My_host, My_user, My_pass)
84
85      conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
86      cursor = conn.cursor()
87
88      for db in LIST_all_db:
89
90          db_name = str(db).replace("'", "").replace("(", "").replace(")", "").replace(",",
            "")
91          #print (db_name)
92
93          if str(My_db_name).lower() in str(db_name).lower():
94
95              DB_exists = 'yes'
96              #print (My_db_name + ' in ' + db_name)
97
98              return DB_exists
99
100         else:
101
102             pass
103
104
105 #print (Mysql_search_db_name(My_host='localhost', My_user='root', My_pass='',
    My_db_name='Rajesh_db') )
106
107
108
109
110 def Mysql_create_DB (My_host, My_user, My_pass, My_db_name):
111
112     conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
113     cursor = conn.cursor()
114
115     DB_name_exists = Mysql_search_db_name (My_host=My_host, My_user=My_user, My_pass=
    My_pass, My_db_name=My_db_name)
116
117     #print (DB_name_exists)
118
119
120     if DB_name_exists is not None and 'yes' in DB_name_exists:
121
122         print (My_db_name + ' exists, database NOT created')
123
124     else:
125
126         cursor.execute("CREATE DATABASE IF NOT EXISTS " + str(My_db_name))
127
128         print (My_db_name + ' NOT exists, database created')
129
```

```
130
131 #Mysql_create_DB (My_host='localhost', My_user='root', My_pass='',
    My_db_name='Rajesh_db')
132
133
134
135
136 def Mysql_create_table (My_host, My_user, My_pass, My_db_name, table_name, table_columns
    ):
137
138     conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
139
140     cursor = conn.cursor()
141     cursor.execute("Use " + str(My_db_name)) #use the database
142     cursor.execute("CREATE TABLE IF NOT EXISTS " + table_name + " " + table_columns)
143
144 '''
145 tb_name = "customers"
146 tb_columns = "(id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), address
    VARCHAR(255))"
147 Mysql_create_table (My_host='localhost', My_user='root', My_pass='',
    My_db_name='rajesh_db', table_name = "customers", table_columns="(id INT AUTO_INCREMENT
    PRIMARY KEY, name VARCHAR(255), address VARCHAR(255))")
148 '''
149
150
151
152 def Mysql_select_ALL_tb_data (My_host, My_user, My_pass , My_db_name, My_table_name):
153
154     conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
155
156     cursor = conn.cursor()
157     cursor.execute("Use " + str(My_db_name)) #use the database
158     cursor.execute("SELECT * FROM " + My_table_name)
159
160     myresult = cursor.fetchall()
161
162     return myresult
163
164
165 print (Mysql_select_ALL_tb_data (My_host='localhost', My_user='root', My_pass='' ,
    My_db_name = 'rajesh_db', My_table_name='customers'))
166
167
168
169 def Mysql_delete_ALL_tb_data():
170
171     pass
172
173
174
175
176 def Mysql_insert_tb_data (My_host, My_user, My_pass, My_db_name, My_sql , My_value):
177
178     conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)
179
180     cursor = conn.cursor()
181     cursor.execute("Use " + str(My_db_name)) #use the database
182     cursor.execute(My_sql, My_value)
183
184     conn.commit()
185
186     print(cursor.rowcount, "record inserted.")
187
188 '''
189 db = "rajesh_db"
190 sql ="INSERT INTO customers (name, address) VALUES (%s, %s)"
```

```
val = ("John", "Highway 21")
Mysql_insert_tb_data (My_host='localhost', My_user='root', My_pass='', My_db_name = db, My_sql =sql , My_value=val)
'''



def Mysql_update_tb_data (My_host, My_user, My_pass, My_db_name, My_sql , My_value):

    conn = Mysql_connect (Mysql_host=My_host, Mysql_user=My_user, Mysql_pass=My_pass)

    cursor = conn.cursor()
    cursor.execute("Use " + str(My_db_name)) #use the database
    cursor.execute(My_sql, My_value)

    conn.commit()

    print(cursor.rowcount, "record(s) affected")

'''
db = "rajesh_db"
sql = "UPDATE customers SET name =%s , address = %s WHERE address = %s"
val = ("peter", "kenmore 123", "moggill 123")
Mysql_update_tb_data (My_host='localhost', My_user='root', My_pass='', My_db_name = db, My_sql =sql , My_value=val)

'''
```